



EKDANT ENVIRO SERVICES PRIVATE LTD

[NABL (ISO / IEC 17025: 2005) Accredited & MOEF Recognized Laboratory
ISO 9001: 2015 and OHSAS 18001 : 2007 Certified Company]

Dear Sir,

We are one of the Fast Growing and Leading Private Testing Laboratory, which is a Govt. Registered and Certified by **ISO 9001 – 2015, OHSAS 18001:2007** and **NABL** (National Accreditation Board for Testing and calibration Laboratories) Accredited Lab & **MOEF** (Ministry of Environmental & Forest).The Certificate is issued combining both the chemical and microbiological testing with No: **TC – 5028**.

Our Services are as Follows:

PHYSICO – CHEMICAL EXAMINATION

➤ **Water**

- Drinking Water
- Bore Water
- Construction purpose Water
- Reagent Grade Water
- Processed Food Industry Water
- Ground Water
- Surface Water
- Irrigation Water
- Water from Purifiers
- Packaged Drinking Water
- Natural Mineral Drinking Water
- Swimming Pool Water
- Chiller Water / Cooling Tower Water

➤ **Waste Water / Pollution & Environment**

- Solid Waste-Sludge
- Sediment
- Water Formed Deposits /Scale
- Soil
- Waste Water

➤ **Atmospheric Pollution**

- Ambient Air Quality Survey
- Workplace Environmental Indoor Air Quality Survey
- Micrometeorological Survey
- Stack Emission Survey /Boiler /Flue Gas Analysis
- Noise (Day & Night) Survey
- Light Intensity Survey
- Volatile Organic Compounds (VOC)
- Compressor Air Quality Survey
- Oil (Diesel/Fuel Oil) Analysis



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- **Oil /Edible Oil**
- **Food And Agricultural Products**
- **Ores And Minerals**
- **Coal And Coke**

❖ **MICRO BIOLOGICAL EXAMINATION**

- **Water**
 - Drinking Water
 - Bore Water
 - Package Drinking Water
 - Food Industry Water
 - Mineral Water
- **Food Agricultural Products**
- **Environmental Pollution**
 - Air Quality Monitoring (Surface and Swap Testing)
 - Effluent Water / Waste Water
- **Soil**

We have a well equipped laboratory with adequate instruments and equipments and we wish to inform that, we are having highly dedicated Qualified, Experienced and Trained Chemists, Microbiologists and Environmental Experts.

Further Mr. Ashok Kumar (CEO) is looking after Business Development and Operation of the lab. His Contact No: 9566073211. Mrs. B. Priyasundari (Quality Manager) is looking after quality and she can be contacted for any clarification by Phone.No:9382862349 / 9444411178 / 7824034759.



Item No. 1: DRINKING WATER PHYSICAL & CHEMICAL ANALYSIS **AS PER 10500 -2012 :**

S. No	Parameters
Physical Parameters	
1	Appearance
2	Colour (Hazen Unit)
3	Odour
4	Turbidity (NTU)
5	EC at 25°C (Micromhoes / cm)
6	pH at 25°C
Chemical Parameters	
7	Total Suspended Solids
8	Total Dissolved Solids
9	Phenolphthalein Alkalinity as CaCO ₃
10	Total Alkalinity as CaCO ₃
11	Total Hardness as CaCO ₃
12	Calcium Hardness as CaCO ₃
13	Calcium as Ca
14	Magnesium Hardness as CaCO ₃
15	Magnesium as Mg
16	Chlorides as Cl
17	Sulphates as SO ₄
18	Iron (Total) as Fe
19	Silica (Reactive) as SiO ₂
20	Carbonate Hardness
21	Non-Carbonate Hardness
22	Free Residual Chlorine

Item No. 02: DRINKING WATER MICROBIOLOGICAL ANALYSIS **AS PER 10500 -2012 :**

S. No	Parameters
Microbiological Parameters	
1	Total Coliforms
2	<i>E.coli</i>



Item No.03: EFFLUENT/SEWAGE WATER SAMPLE-LIMITED PARAMETERS AS PER TNPCB :

S. No	Parameters
1	pH at 25°C
2	Total Suspended Solids (TSS)
3	Total Dissolved Solids (TDS)
4	BOD 3 Days at 27° C
5	COD
6	Chlorides as Cl
7	Sulphates as SO ₄
8	Oil & Grease

Item No.04: CONSTRUCTION PARAMETERS:

S. No	Parameters
1	Organic Solids (mg/ l)
2	Inorganic Solids (mg/ l)
3	Sulfate as So ₃ (mg/ l)
4	Chloride as Cl (mg/ l)
5	Total Suspended Solids (mg/ l)
6	pH value @ 25°C
Neutralization	
7	To neutralize 100 ml of water using Phenolphthalein indicator (ml)with 0.02N NaoH
8	To neutralize 100 ml of water Using Methyl Orange indicator (ml) with 0.02 N H ₂ SO ₄



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Item No.05: DRINKING WATER COMPLETE ANALYSIS AS PER 10500 -2012:

S. No	Parameters
Physical Parameters	
1	pH value @ 25°C
2	Color (Hazen Unit)
3	Odor
4	Taste
5	Turbidity (NTU)
Chemical Parameters	
6	Total Hardness as CaCO ₃ (mg/l)
7	Total Iron as Fe(mg/l)
8	Chlorides as Cl(mg/l)
9	Free residual chlorine (mg/l)
10	Total Dissolved Solids (mg/l)
11	Calcium as Ca (mg/l)
12	Magnesium as Mg (mg/l)
13	Copper as Cu (mg/l)
14	Manganese as Mn(mg/l)
15	Sulphates as SO ₄ (mg/l)
16	Nitrate as NO ₃ (mg/l)
17	Fluoride as F (mg/l)
18	Phenolic compounds (as C ₆ H ₅ OH) (mg/l)
19	Mercury as Hg (mg/l)
20	Cadmium as Cd (mg/l)
21	Selenium as Se (mg/l)
22	Arsenic as As (mg/l)
23	Cyanide as CN(mg/l)
24	Sulphide as S (mg/l)
25	Lead as Pb (mg/l)
26	Zinc as Zn (mg/l)
27	Anionic detergents (as MBAS)(mg/l)
28	Chromium as Cr ⁶⁺ (mg/l)
29	Polynuclear aromatic hydrocarbons (as PAH) (mg/l)
30	PolyChlorinated Biphenyls (mg/l)
31	Total Alkalinity as CaCO ₃ (mg/l)
32	Aluminium as Al(mg/l)
33	Boron as B (mg/l)
34	Mineral oil (mg/l)
35	Barium as Ba (mg / l)
36	Ammonia as NH ₃ (mg/l)
37	Silver as Ag(mg/l)
38	Molybdenum (mg/l)
39	Nickel as Ni (mg/l)
40	Chloramines as NH ₂ Cl (mg/l)
41	Trihalomethane as CHX ₃ (mg/l)
42	Pesticides (µg/l)



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Item No.06: COMPLETE ANALYSIS AS PER TNPCB PARAMETERS :

S. No	Parameters
1	Color
2	Odour
3	Total Dissolved Solids
4	Total Suspended Solids
5	Temperature
6	Arsenic as As
7	Cadmium as Cd
8	Total Chromium as Cr
9	Hexavalent Chromium as Cr6+
10	Copper as Cu
11	Lead as Pb
12	Mercury as Hg
13	Nickel as Ni
14	Selenium as Se
15	Zinc as Zn
16	Boron as B
17	Cyanide as CN
18	Residual Chlorine
19	Chloride as Cl
20	Fluoride as F
21	pH
22	Ammonical Nitrogen as N
23	Total Kjeldahl Nitrogen as N
24	Free Ammonia as NH ₃
25	Phosphorous as P
26	Sulphide as H ₂ S
27	Sulphate as SO ₄
28	Biochemical Oxygen Demand (BOD-5days/3days)
29	Chemical Oxygen Demand (COD)
30	Oil and Grease
31	Phenols as C ₆ H ₅ OH
32	Percent Sodium
33	Residual Sodium Carbonate
34	Pesticides



Item No.07: AMBIENT AIR QUALITY MONITORING AS PER CPCB NOV-2009 AMENDMENT:

S. No	Parameters
1	Sulphur Dioxide (SO ₂)
2	Nitrogen Dioxide (NO _x)
3	Particulate Matter (size less than 10µm)
4	Particulate Matter (size less than 2.5 µm)
5	Ozone (O ₃)
6	Lead (Pb)
7	Carbon Monoxide (CO)
8	Ammonia (NH ₃)
9	Benzene (C ₆ H ₆)
10	Benzo Pyrene
11	Arsenic (As)
12	Nickel (Ni)

Item No.08: STACK MONITORING:

S. No	Parameters
1	Flue Gas Temperature
2	Flue Gas Pressure
3	Flue Gas Velocity
4	Volume of Gas Discharged
5	Particulate Matter (PM)
6	Sulphur- di- oxide (SO ₂)
7	Nitrogen oxides (NO _x)
8	Carbon - di - oxide (CO ₂)
9	Carbon Monoxide (CO)
10	Oxygen (O ₂)

Item No. 09: NOISE SURVEY:

Noise Survey

Item No. 10: LIGHT INTENSITY:

Light Intensity



Item No.11: MICROMETEOROLOGY:

S. No	Parameters
1	Wind Direction
2	Wind Speed
3	Relative Humidity
4	Temperature

Item No.12. INDOOR AIR QUALITY - PHYSICAL, CHEMICAL & MICROBIOLOGICAL PARAMETERS :

S. No	Parameters
Physical & Chemical Parameters	
1	Air movements (At Workstation within occupied Zone)
2	Carbon dioxide in (ppm)
3	Carbon monoxide (ppm)
4	Oxides of nitrogen concentration - $\mu\text{g}/\text{m}^3$
5	Oxygen in %
6	Relative Humidity in %
7	Respirable suspended particulate matter (RSPM) concentration ($\mu\text{g}/\text{m}^3$)
8	Temperature in $^{\circ}\text{C}$
9	Sulphur- di- oxide (SO_2)
Microbiological Parameters	
1	Bacterial count - 35°C for 72 hrs
2	Fungal Count - 25°C for 5 Days



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Item No. 13: USED OIL :

S. No	Parameters
1	Colour
2	Water
3	Density
4	Kinematic Viscosity
5	Neutralization Value
6	Saponification Value
7	Total Halides as Chloride
8	PCB
9	Lead
10	Arsenic
11	Cd+ Cr+ Ni
12	Poly Aromatic Hydrocarbons (PAH)
13	Diluents
14	Sediments

Item No.14: SCALE SAMPLE PARAMETERS:

S. No	Parameters
1	Moisture
2	Iron
3	Silica
4	Loss On Ignition
5	Calcium
6	Magnesium
7	Sulphates
8	Chlorides
9	Phosphorous
10	Aluminum
11	Sodium
12	Potassium



Item No.15: SWIMMING POOL WATER TESTING:

S. No	Parameters
1	pH Value
2	Colour (Hazen Unit)
3	Odour
4	Taste
5	Turbidity (NTU)
6	Total Alkalinity as CaCO ₃ , mg/l
7	Total Dissolved Solids (TDS)
8	Chlorides as Cl, mg/l
9	Iron (Total) as Fe, mg/l
10	Total Residual Chlorine, mg/l
11	Oxygen absorbed in 4 hours at 27°C, mg/l
12	Aluminium as Al, mg/l
13	Heavy Metals as Pb, mg/l
14	Standard Plate Count (CFU/ml)
15	Total Coliforms (MPN/100ml)

Item No.16: COOLING TOWER WATER /CHILL WATER ANALYSIS:

S. No	Parameters
1	pH value at 25°C
2	Electrical Conductivity at 25°C
3	M - Alkalinity as CaCO ₃ (mg/l)
4	Chloride ion as Cl (mg/l)
5	Sulphuric acid ion as SO ₄ (mg/l)
6	Total Hardness as CaCO ₃ (mg/l)
7	Ammonium ion state as NH ₄ (mg/l)
8	Silica in ion state as SiO ₂ (mg/l)
9	Free Carbonic acid as HCO ₃ (mg/l)
10	Sulphur ion as S (mg/l)
11	Total iron as Fe (mg/l)
12	Dissolved oxygen (mg/l)
13	COD(mg/l)
14	BOD at 27°C for 3 days
15	Dissolved organics (mg/l)
16	Turbidity (NTU)
17	Total Suspended Solids (TSS)
18	Color (Hazen Unit)
19	Phenolphthalein Alkalinity as CaCO ₃ (mg/l)



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Item No. 17: SOIL ANALYSIS (GENERAL PARAMETERS):

S. No	Parameters
Physical parameters	
1	pH
2	EC
3	Moisture
4	Density
5	Color
6	Consistency
7	Structure
8	Texture
9	Loss On Ignition
10	Lime status
Chemical Parameters	
1	Alkalinity
2	Sodium Absorption Ratio
3	Cation Exchange Ratio
4	Oil & Grease
5	Chlorides
6	Sulphates
7	Nitrates
8	Total Nitrogen
9	Total Phosphorous
10	Calcium
11	Magnesium
12	Sodium
13	Potassium
14	Iron
15	Organic Matter
16	Water Holding Capacity
17	Copper
18	Nickel
19	Chromium
20	Lead
21	Zinc



Item No. 18: FOOD TESTING:

S. No	Parameters
Microbiological Parameters	
1	Total Bacterial Count
2	Yeast & Mould
3	Coliform Count
4	E.coli
5	Staphylococcus aureus
6	Salmonella Sp
Chemical Parameters	
1	Carbohydrates
2	Crude Fibre
3	Energy
4	Fat
5	Moisture
6	Protein
7	Total Ash
8	Acide Insoluble Ash

Item No. 19: COAL & COKE:

S. No	Parameters
I. Proximate Analysis	
1	Total Moisture
3	Moisture
4	Volatile Matter (VM)
5	Ash
6	Fixed Carbon
II. Gross Calorific Value (GCV)	
III. Ultimate Analysis (Dry Basis)	
7	Carbon
8	Hydrogen
9	Nitrogen
10	Sulphur
11	Moisture
12	Ash
13	Oxygen



Item No.20: IRON ORE SAMPLE:

S. No	Parameters
1	Moisture
2	Total Iron Content
3	Loss On Ignition
4	Silica
5	Sulphur
6	Phosphorus
8	Aluminium
9	Calcium
10	Magnesium
11	Titanium
12	Chromium

Item No.21: LIME STONE :

S. No	Parameters
1	Magnesium as $MgCO_3$
2	Calcium as $CaCO_3$
3	Alumina as Al_2O_3
4	Iron as Fe_2O_3
5	Sodium as Na_2O
6	Potassium as K_2O
7	Silica as SiO_2

Item No.22. PACKAGED DRINKING WATER AS PER IS: 14543:

S. No	Parameters
Microbiological Parameters	
1	Total microbial count (cfu/ml) a. at 20 -22 C in 72 hours b. At 37 C in 24 hours.
2	Total yeast and mould count
3	E.coli
4	Enterobacteriaceae (Coliforms)
5	Faecal streptococci
6	S. aureus
7	Sulphite reducing anaerobes
8	Salmonella
9	Shigella
10	V. cholera
11	V. parahaemolyticus
12	Ps. aeruginosa



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Item No.23. PACKAGED DRINKING WATER AS PER IS: 14543:

S. No	Parameters
<i>Physical & Chemical Parameters</i>	
1	Color
2	Odor
3	Turbidity
4	Total Dissolved Solids
5	pH Value
6	Barium
7	Copper
8	Iron
9	Manganese
10	Nitrate
11	Nitrite
12	Fluoride
13	Zinc
14	Silver
15	Aluminium
16	Chloride
17	Selenium
18	Sulphate
19	Alkalinity
20	Calcium
21	Magnesium
22	Sodium
23	Residual Free chlorine
24	Phenolic compounds
25	Mineral Oil
26	Anionic Surface active agents
27	Mercury
28	Cadmium
29	Arsenic
30	Cyanide
31	Lead
32	Chromium
33	Nickel
34	Polychlorinated biphenyle
35	Polynuclear aromatic hydrocarbons
36	Pesticide Residues



Item No. 24: VOLATILE ORGANIC COMPOUNDS (VOC):

S. No	Parameters
1	Acetone
2	Benzene
3	Benzyl Chloride
4	Bromodichloromethane
5	Bromoform
6	Bromomethane
7	1,3 - Butadiene
8	2 - Butanone
9	Carbondisulphide
10	Carbontetrachloride
11	Chlorobenzene
12	Chloroethane
13	Chloroform
14	Chloromethane
15	Cyclohexane
16	Dibromochloroethane
17	1,2 - Dibromoethane
18	1,2 - Dichlorobenzene
19	1,3 - Dichlorobenzene
20	1,4 - Dichlorobenzene
21	Dichlorodifluoromethane
22	1,1 Dichloroethane
23	1,2 - Dichloroethane
24	1,1 - Dichloroethylene
25	Cis-1,2 - Dichloroethylene
26	Trans- 1,2 - Dichloroethylene
27	Dichloromethane
28	1,2 - Dichloropropane
29	Cis- 1,3 - Dichloropropene
30	trans-1,3 - Dichloropropene
31	1,2 - Dichlorotetrafluoroethane
32	1,4 - Dioxane
33	Ethanol
34	Ethyl Acetate
35	Ethyl Benzene
36	4 -Ethyl Toluene
37	Heptane
38	2-Hexanone



Item No. 24: VOLATILE ORGANIC COMPOUNDS (VOC):

S. No	Parameters
39	4-Methyl 2- Pentanone
40	Mesitylene
41	tert-Butylemethylether
42	2-Propanol
43	Propylene
44	Styrene
45	1,1,2,2 – Tetrachloroethane
46	Tetrachloroethylene
47	Toluene
48	1,2,4 – Trichlorobenzene
49	Trichlorofluoromethane
50	1,1,1 – Trichloroethane
51	1,1,2 – Trichloroethane
52	Trichloroethylene
53	1,1,2 – Trichloro 1,2,2 – Trifluoroethane
54	1,2,4 – Trimethylbenzene
55	Vinyl Acetate
56	Vinyl Chloride
57	Xylene
58	1 – Butanol
59	Hexane
60	Tetrahydrofuran

Item No: 25 SWAB TESTING:

S. No	Parameters
1	Total Bacterial Count
2	Total Fungal Count